

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P297054

Luminaire Tested: **D3X-WG-36L82765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-36L82765-LD5-UNV-24-T1-W2A-5500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3592.0 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

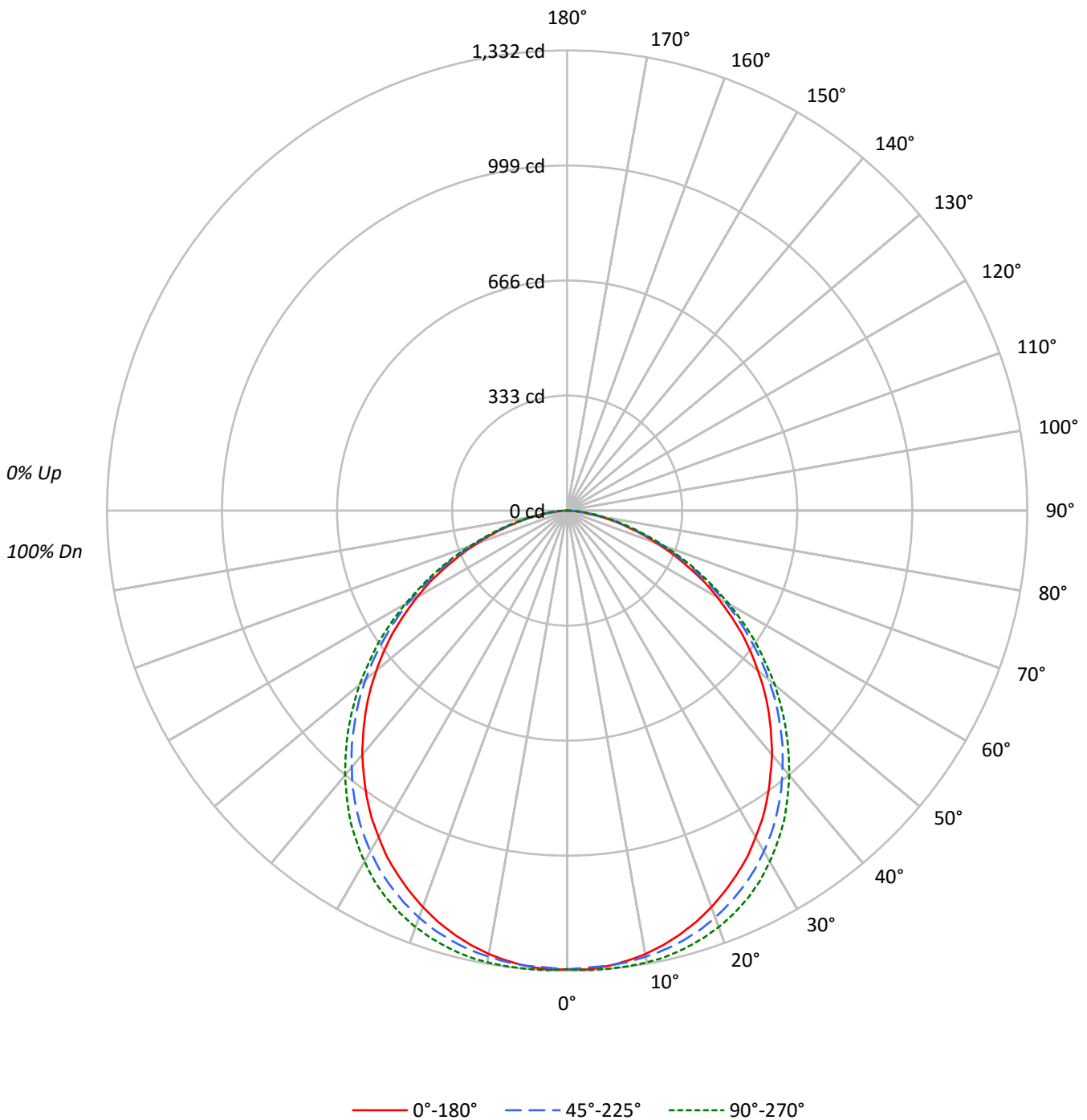
Input Watts (W): 25.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1787	1787	1787
5°	1788	1786	1799
10°	1781	1791	1814
15°	1767	1796	1828
20°	1748	1795	1837
25°	1725	1786	1838
30°	1695	1769	1823
35°	1661	1744	1799
40°	1620	1704	1756
45°	1569	1655	1704
50°	1508	1594	1643
55°	1443	1515	1563
60°	1350	1420	1454
65°	1233	1299	1331
70°	1083	1139	1169
75°	917	963	997
80°	728	797	817
85°	497	596	576



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	3.5
10°-20°	364.3	10.1
20°-30°	553.6	15.4
30°-40°	660.5	18.4
40°-50°	667.1	18.6
50°-60°	574.8	16.0
60°-70°	400.7	11.2
70°-80°	198.6	5.5
80°-90°	46.3	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1044.0	29.1
0°-40°	1704.5	47.5
0°-60°	2946.4	82.0
0°-90°	3592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3592.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1328	1328	1328	1328	1328	
5°	1324	1323	1323	1329	1332	126
15°	1269	1275	1289	1306	1312	358
25°	1162	1177	1203	1228	1238	535
35°	1011	1028	1062	1086	1095	632
45°	825	843	870	890	896	636
55°	615	628	646	661	666	548
65°	387	395	408	412	418	385
75°	176	179	185	189	192	190
85°	32	39	39	36	37	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1327.9	1327.9	1327.9	1327.9	1327.9
2.5°	1329.2	1326.6	1324.0	1329.2	1331.7
5°	1324.0	1322.7	1322.7	1329.2	1331.7
7.5°	1315.0	1315.0	1318.9	1327.9	1330.5
10°	1303.4	1306.0	1311.2	1324.0	1327.9
12.5°	1288.0	1293.1	1302.2	1317.6	1322.7
15°	1268.7	1275.1	1289.3	1306.0	1312.4
17.5°	1246.8	1255.8	1273.8	1293.1	1299.6
20°	1221.1	1232.7	1253.3	1275.1	1282.9
22.5°	1192.8	1206.9	1230.1	1253.3	1262.3
25°	1161.9	1177.3	1203.1	1227.5	1237.8
27.5°	1129.7	1145.2	1173.5	1197.9	1208.2
30°	1091.1	1109.1	1138.7	1164.5	1173.5
32.5°	1053.8	1071.8	1102.7	1125.9	1134.9
35°	1011.4	1028.1	1061.5	1086.0	1095.0
37.5°	966.3	985.6	1017.8	1039.7	1047.4
40°	922.6	939.3	970.2	992.1	999.8
42.5°	873.7	891.7	922.6	941.9	948.3
45°	824.8	842.8	869.8	890.4	895.6
47.5°	774.6	791.3	818.3	835.1	840.2
50°	720.6	736.0	761.7	778.5	784.9
52.5°	669.1	683.2	705.1	719.3	723.1
55°	615.0	627.9	645.9	661.4	666.5
57.5°	557.1	571.3	588.0	600.9	604.8
60°	501.8	513.4	527.6	539.1	540.4
62.5°	447.8	452.9	465.8	476.1	477.4
65°	387.3	395.0	407.9	411.7	418.2
67.5°	332.0	337.1	347.4	352.6	357.7
70°	275.4	279.2	289.5	295.9	297.2
72.5°	226.5	227.7	235.5	240.6	241.9
75°	176.3	178.9	185.3	189.1	191.7
77.5°	133.8	136.4	141.5	144.1	144.1
80°	93.9	97.8	102.9	104.2	105.5
82.5°	60.5	65.6	69.5	70.8	68.2
85°	32.2	38.6	38.6	36.0	37.3
87.5°	11.6	14.2	15.4	16.7	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)